		Mucool Experimental Mode in MTA						
	H3	Na22				_		
K(atom/star)=	0.075	0.02	SmtoSa=	0.019			H3	Na22
L=	0.9	0.135	dpmtoCi=	1.17E+06		Buildup	5.47E-02	2.34E-01
Rho(soil)=	2.25	2.25				t1/2(yr)=	12.33	2.602
w=	0.27	0.52	*Save(star/cc-p)=			Lambda=	5.62E-02	2.66E-01
Factor-ave=	1.59E-19	1.41E-20	*Smax(star/cc-p)=	1.61E-09	-	Decay=	9.45E-01	7.66E-01
ŀ		H	lydro-xport R(Till)= 6.30E-09					
			Tirr (yr) = <b>1</b>					
			Tbeam-off (yr) = 1			_		
	Tritiu	m		Sodium			% of Total Limit	
	C-initial	C-final		C-initial	C-final			
Protons/year	(pCi/cc-y)	(pCi/cc-y)		(pCi/cc-y)	(pCi/cc-y)		Surface	Aquifer
6.70E+20	107	6.71E-07		9.5	5.96E-08		100.0%	0.000%

Protons/year arbitrarily chosen to meet surface water limit. Represents nearly 4800 pulses per hour continuously.

Star density estimate from I. Rakhno 7 April 2010 is 430 stars per cm^3 per second, assuming 1.6E13 protons per pulse and 1 pulse/min. Since underdrainage is flushed with collected water, only first year of surface discharge limit is considered. The apparatus, a high-pressure RF cavity upstream of a thick absorber, is an example of a typical experimental device.

Name/Date							
Originated	W. Higgins	7-Apr-10					
Checked							
Approved							